their traffic to the one tandem location in order to serve all their customers in the entire LATA. To provide local service to all customers in a LATA, including small businesses and residential customers, a facilities-based CLEC must collocate in every end office within the LATA, build fiber to every building, or obtain line-of-sight microwave to every customer premise. To provide universal coverage in LATA 132 that covers the New York State portion of the New York metropolitism area would require collocation in 195 end offices.

- 38. To provide universal coverage for all customers within a LATA, a CLEC must also buy unbundled local loops for all of its customers from the relevant ILEC. A CLEC must then connect each unbundled loop to its network. It must also develop adequate testing procedures and purchase testing equipment integrated with the digital loop earrier and switch to isolate trouble on its network from problems with the local loop.
- 39. Long-distance networks are marked by significant economies of scale (declining average costs) and utilize capital resources very efficiently. The transport and switching capacity of a long-distance network is designed to minimize idle time because of the inherently shared nature of these resources. Each additional minute on a long-distance network significantly reduces the per-unit cost of providing long-distance service.
- 40. By contrast, there are non-trivial incremental capital costs associated with local networks not present with long-distance networks in addition to considerable upfront fixed costs. Each additional line on a CLEC's network requires at least \$100 in additional capital expenditure associated with line cards either in the digital loop carrier or the switch that convert analog signals to digital. If any enhanced service other than POTS is required, the additional capital cost could be as high as \$250 per line. This asset as well as the unbundled loop is a dedicated (not shared) resource for a single customer that remains idle when not in use.

41. Wireless local networks such as Sprint Spectrum are also inherently different from local wireline networks. Although provision of wireless services requires significant upfront capital, the barriers to entry are significantly lower than local wireline services. A wireless carrier can build and launch a completely ubiquitous service covering a large city in less than two years. Sufficient cell sites (200) and one switch at a cost of approximately \$100 million can have the same potential customer reach of a wireline network that costs billions of dollars.

Another distinguishing factor is the fact that wireless assets (cell sites) do not remain idle to the extent the landline network does.

#### Section VI

As a company with a large share of small-business and residential customers, LCI needs an economically viable Unbundled Network Element Platform ("UNE-P") to provide local services to the majority of its customers in the state of New York.

- As a company with a large share of small-business and residential customers, LCI needs the Unbundled Network Element Platform to provide local services to the majority of its customers in the state of New York.
- 43. Over half of LCI's commercial customers in the state of New York generate less than fifty dollars (\$50) in mouthly revenues. Roughly 66% of LCI's residential customers in the state of New York generate less than twenty-five dollars (\$25) in monthly revenues. It is not economically viable to develop local facilities either by collocating where its customers are or by BA-NY's Extended Link to seave these customers. Most CLECs are not even collocated in the majority of end offices in the state of New York that serve LCI's long-distance customers. Using a CLEC as a certiers' carrier is not a feasible option for LCI to serve its customers.

- 44. Jocelyn Rogers, who works for me as Manager of Business Analysis, has identified several minimum requirements for an economically viable UNE-P that will allow LCI to serve its customers profitably. The minimum requirements according to her analysis are: all UNE components must be set at TELRIC rates; non-recurring charges must be equated to true cost, the carrier employing the UNE-P must be allowed to charge for access; glue charges should be negligible (if any); no collocation should be required; and there must be true common (shared) transport espability.
- 45. Ms. Rogers' analysis shows that an UNE-P that meets the criteria outlined above would permit LCI to serve its representative small-business and residential customers profitably, generating not income of roughly four percent (4%) for a typical business customer and one percent (1%) for a representative residential customer. In contrast, under the proposal put forth by BA-NY and the Public Service Commission of New York ("PSC"), LCI could not serve these customers because even under the most favorable account, net income would be minus five percent (-5%) for business customers and minus eleven percent (-11%) for residential customers.
- 46. The PSC's proposed geographic, customer-segment, and time limitations for UNE-P would effectively preclude LCI from providing local service to its small-business and residential customers. Indeed, unless an UNE-P that mosts the criteria outlined in paragraph 44 above, is made available to LCI indefinitely, it cannot provide local services to its U.S. customers and samil business except through resale, which is also unprofitable.
- 47. Resalt of BA-NY local services is unprofitable due to the low discount of 19% that BA-NY provides to resellers. The provision of local services (even as a reseller) is high in sales, general and administrative expenses. The low resalt discount (and the accompanying loss

from resale) means that LCI must effectively subsidize its customers if they are to enjoy the benefits of competitive choice.

48. In summary, LCI cannot economically serve its significant base of small-business and residential customer by building local facilities, leasing or resulting CLEC facilities, or through the resale of BA-NY services. Only a true cost-based UNE-P available without geographic and time limitations will ensure that these customers can enjoy the benefits of competition in the local telephony marketplace.

The information contained in this efficient is besed on my proposal knowledge and is true and context to the best of my knowledge and belief.

Theren I Bucks

Subscribed and sweet to before me this 22 daylof March, 1998.

NOTARY PURIC

My commission expites:

My Concellation Explore February 28, 2010

Appendix A



March 5, 1998

Ms Anne K. Bingaman President Telegram Div LCI International 2180 Generaturo Drive Suite 800 McLean, VA 22102

Dear Ms Bingamen:

As a collocation update and in compliance with New York P.S.C. No. 918 Access Service Tariff, please find attached a Bell Atlantic New York Collocation Status (As of 2/98).

P.S.C. No. 915 Access Services Tariff requires that "when a collocated interconnection node is implemented in an end office or access tandem, the Telephone Company will provide written notification to all access customers of record within the particular and office or access tandem, that its Access Bill will be converted to the above Tandem Interconnection/Common/ Dedicated rate structure."

If you have any questions, please contact your Bell Atlantic Account Manager.

Sincerely.

Attachment



## COLLOCATION STATUS AS OF 2/98

CO	co cm	Date
2ND AVE	NYCMNY13	10/95
ALBANY/STATE	ALBYNYSS	8/95
AMHERST	AMHRNYMP	<b>3/97</b>
BRIDGE ST	NYCKNYBR	4/92
BROAD ST	NYCLINYBS	<b>6/9</b> 1
BUFFALO/FRANKLIN	BFLONYFR	7/95
CENTRAL ISLIP	BRWDNYBW	1/92
CORONA	NYCONYCO	10/97
E 30 ST	NYCMNY30	6/94
E37ST	NYCMNY37	<b>6/9</b> 1
E 56 ST	NYCHNY56	4/92
GARDEN CITY	GRCYNYGC	5/92
GREAT NECK	GRNKNYGN	10/97
HEMPSTEAD	<b>HMPSNYHS</b>	2/97
JAMAICA	NACONATV	1/93
MINEOLA	MENTINAM	9/97
PLAINVIEW	PLVANYPY	10/97
PLEASANTVILLE	PSVLNYPY	8/97
PORTCHESTER	PTCHNYPC	7/97
SUFFERN	SFRNNYSU	7/97
SYRACUSE/STATE	Syrchysu	12/96
W 18 ST	NYCMNY18	1/93
W 36 ST	NYCMNY36	11/92
W42 ST	NYCMNY42	9/92
W 50 ST	NYCMNY50	8/92
W STATEN ISLAND	NYCRNYWS	7/96
WEST ST	NYCMNYWS	6/91
WESTBURY	WBYNNYWE	19/97
WHITE PLAINS	WHIPLNYWP	9/94
WILLIAMSBURG	NYCKNYWM	1/97
WILLIAMSVILLE	WSVLNYNC	3/97

NY state Central Office with Collegation

Appendix B

### Analysis of End Offices with Collegation in LATA 132

	Total	Business	Residential
End Office	Linna	Linea'	Lines*
BRWONYBW	64,886	21,251	38,814
GRCYNYGC	31,140	11,054	20,006
ernknygn	37,274	18,291	24,043
HM P30(YH3)	68,719	24,748	44,870
MINILATINE	83,664	22,000	41,106
NYCKNYBR	134,085	47,861	<b>27,004</b>
HYCKNYWM	64,278	10,268	36,610
NYCHWY13	171,040	120,384	61,586
NYCHINYIB	210,803	163,094	05,000
MY CRIMY 3D	120,084	84,409	34,178
NYCMNY36	104,682	73,403	31,469
NACWWA34	148,604	102,886	44,008
NYCHMY42	114,033	71,003	34, 226
N <b>YCMMY#0</b>	155,118	108,683	46, 826
NYCMNY96	<b>2</b> 01, <b>39</b> 4	140,476	. 60,416
NYCHNYBS	132,044	92,431 .	38413
NYCMNYNE	160,126	133,098	67,054
NYCQNYCO	32,140	11,412	20,737
NYCGNYA	76,497	21,004	48,453
NYCHNYWO	41,804	14,476	27,029
PLYMMYPY	11,345	4,027	7,314
PBVLNYPV	20,611	1,316	13,205
PTCHNYPC	31,444	11,162	20,248
8FRIMY\$U	16,029	1,519	10.210
WHYNNYWE	35,390	11,885	21,637
WHPLNYWP	91,124	F2,317	80,777
All End Offices with Collegation (28)	2,365,872	1,373,214	982,468
NCY End Offices with Collegation (18)	1,890,078	1,207,938	882,141
Menhatten End Offices with Collocation (10)	1,566,428	1,08 <b>3,496</b>	418,928

#### Analysis of End Offices with Collocation in LATA 132

Percent of Business Lines in LATA 132 Covered by Collocation	37%
Percent of Residential Lines in LATA 132 Covered by Collegation	22%
Percent of Business Lines in NYC Covered by Collection	44%
Percent of Residential Lines in NYC Covered by Collection	25%
Percent of Business Lines in Manhatian Covered by Collection	87%
Percent of Residential Lines in Manhatten Covered by Collocation	47%

Notes: The number of total avoiced socces lines served by the end offices was obtained from ARMIS data reported by NYMEX.

Letter from Resembly Dresch at Bell Allertic identified the end offices with cofficeriton.

There are five end offices with collection outside LATA 132 in New York State.

End offices outside LATA 132 are not included in this emalphia.

CLEC collection governes outside LATA 132 is their to be significantly worse than for LATA 132.

<sup>\*</sup>The total avitated access lines in an end office was divided into business and residential lines by assuming that 70% of times in Markettan are business lines and 35% of times in at other and offices are business lines. Thirty-five percent is the atelemics proportion.

# NEW YORK STATE PUBLIC SERVICE COMMISSION

Petition of New York Telephone Company for Approval of its Statement of Generally Available Terms and Conditions (§ 252) and Draft Filing of Petition for InterLATA Entry (§ 271)

Case No. 97-C-0271

#### APPIDAVIT OF THERESA STROMBOTNE

- I, Theresa Strombotne, do hereby declare and state:
- I am currently employed by LCI as Senior Manager of its Local Service Information Systems. I have over 18 years experience in the design, development, testing and implementation of information systems. I have been employed by LCI for eight years, working on telecommunications order entry, call processing and billing systems. I joined LCI's Local Services Division in August 1996 and have been responsible since that time for working on the design, development, testing and implementation of OSS interface for LCI.
- 2. During the last 19 months, LCI has put into production application-toapplication ("app-to-app") EDI resale ordering interfaces with Ameritech and BellSouth,
  an electronic resale pro-ordering interface with Ameritech, and electronic billing
  interfaces for resale with Ameritech, Bell Atlantic North, Bell Atlantic South, BellSouth
  and Pacific Bell. LCI has also implemented resale GUI preordering and ordering
  interface systems with Bell Atlantic New York ("BA-NY") and BellSouth. LCI is
  currently testing EDI ordering interfaces for resale with BA-NY and Bell Atlantic South.

Exhibit B to LCI's Comments

- 3. LCI's development of these resale OSS interfaces has been extremely costly and time-consuming. For example, LCI has been working with BA-NY since May 1997 to design, develop, test and implement BA-NY's resale EDI ordering interface.

  During these ten months, BA-NY has changed the version of its EDI interface four times. LCI has encountered sumerous problems that have delayed its ability to develop and implement an app-to-app BDI interface with BA-NY. These problems, which were detailed in an affidavit of Wayne M. Charity that LCI submitted to the New York Public Service Commission in connection with the Technical Conference in December 1997, include, smong other things, incomplete and inadequate documentation; incomplete and inadequate medical specifications and business rules; the lack of electronic flow-through for test orders; no written certification requirements; and so support for certain OBF standard order types, including "assume as specified" orders.
- 4. LCI has participated in the New York PSC collaborative on BA-NY's
  OSS for unbundled network elements ("UNEs"). While LCI is hopeful that some of the
  significant problems that it has encountered with BA-NY's resale OSS will be remedied
  by BA-NY as a result of the collaborative, the process of developing and implementing
  an app-to-app EDI interface for the UNE Platform will unquestionably represent a
  significant development effort for LCI in terms of cost and time.
- 5. I understand that the New York PSC staff is proposing that BA-NY only be obligated to offer the UNE Platform only in selected areas in New York, and then only for periods of zero or three or five years, depending on the type of customer and geographic location. Based on my experience in developing and implementing EDI OSS interfaces, I believe it is unlikely that LCI would be able to recover its cost of developing

the interfaces that would support all of the OSS functions with respect to the UNE

Platform - pre-ordering, ordering, maintenance and repair, and billing - if it is not able to

sell telecommunications services via the UNE-Platform to any businesses in New York

City, and is only able to sell the residential and small business customers outside New

York City for three to five years, depending on geographic location.

6. The following is a general description of what LCI would be required to undertake to design, develop and implement the OSS interfaces for the UNE Platform.

with BA-NY:

#### (a) DESIGN OF INTERFACES

LCI would have to design new interfaces for the following new functionality:

- UNE-Platform Elements
- Directory Assistance
- E911 services
- Operator services
- LIDB interfaces.
- Service Provider Number Portability
- Collocation
- End office integration
- Advanced Intelligent Network access
- Network Interface device

These interfaces would not be similar to BA-NY's interfaces for local service resule for several resoons. Documentation describing BA-NY's UNE interfaces to date have described different order formats, content and communications protocols. Also, the detailed service data required to order UNEs is different than the data to order switched result services. Additionally, detailed equipment information must be supplied. It is expected that the format of the interfaces, the communications protocols and the method of accessing BA-NY interfaces will all require significant new systems design affort.

#### (b) DESIGN OF LCPS INTERNAL SYSTEMS

LCI will need to develop new systems and databases to support the ordering of UNEs., which are described briefly below.

- facilities and equipment characteristics and location information, describe facilities ownership, describe facilities maintenance responsibilities (who is responsible for fixing what when something goes wrong) and display facilities availability at central offices and end offices. New databases will be needed to track the use of the acquired facilities, and project the need to order additional facilities to keep up with demand. New databases will be needed to associate equipment information with individual customers. New databases will be required to store LLDB, 911, and number postability information. New databases will needed to store ensurer rooting and setup information.
- (2) New front end user interface acroess will need to be designed to allow the entry of all the new data fields and values collected in the analysis phase. This will include across to coper basic support data such as equipment types, loop types, and services available at each central office and end office. New front end interfaces will need to be designed to display facilities maintenance responsibilities.
- (3) New systems will need to be developed to bulk load data provided in electronic form by BA-NY, where available, and to update this data on a periodic basis, as updates are provided by BA-NY. New systems will need to be developed to format ordering information in the many different formats required by each type of UNE-Platform to be ordered. New maps will have to be designed to translate that information into EDI format. New systems will need to be designed to communicate

problems with facilities to BA-NY, and to request testing, maintenance and resolution of these problems.

(4) New systems will need to be designed to read BA-NY's invoices for UNEs, and to validate those invoices against the facilities and equipment actually ordered. Systems must be designed to send invoice dispute information to BA-NY, and to research BA-NY invoices to crosure that disputes are credited on future invoices.

#### (c) DESIGN OF LCI'S INTERNAL PROCESSES

LCI will need to design and establish internal processes to support the following areas:

- Ordering the UNE platform elements
- Pre-order validation of UNE platform elements ordered
- Order confirmation and due date processes
- Order jeopurdy processes
- Order escalation processes
- Change order processes
- Disconnect order processes
- Trouble notification processes
- Trouble resolution processes
- Trouble escalation processes
- Engineering of the initial UNE platform ordered
- Engineering of additions to the UNE platform ordered
- Engineering of interconnections with other carriers
- Invoice validation processes
- Invoice dispute processes
- Settlements processes for origination and termination of calls from other carriers.
- Systems operation processes

#### (d) DESIGN OF TEST PLAN

LCI will need to design a test the ordering of the UNE-Platform. The test plan will need to verify that systems, LCI internal processes, and BA-NY processes support new orders, change orders and disconnect orders, from initial service availability screening, to ordering to service tumup, to problem notification and correction, to correct billing, and to service disconnect. The test plan will need to verify that the system and processes work as documented, and that the documented system or process actually result in the desired service being turned up, modified or disconnected, as specified on the order. The test plan must have a method for measuring that each requirement (system or business rule) is tested, and that the actual results much the expected results. The test plan must have a method for reporting test discrepancies, and tracking the discrepancies to ensure they are resolved. The test plan must cause that each test is determined to be material to the successful completion of an order. The test plan must also measure the performance of the test.

#### (e) TESTING

After new systems and enhancements to existing systems are identified, designed, developed, onit tested and system tested at LCI, integration testing with BA-NY systems is still necessary to ensure accuracy and completeness of functionality, communications, processes and procedures. Each problem found must be reported and described, assigned to the responsible party, corrected and retested, until no material problems remain.

7. In summary, the efforts set forth above are substantial, and will require considerable time and expense to LCI. It is unlikely that LCI could justify economically the expense of these efforts if the UNE-Platform will only be available to it in limited

geographic areas, only for certain limited customers, and will cose to be available altogether in three to five years.

# IN THE STATE OF OHIO ) IN THE CITY OF DUBLIN )

The information contained in this affidavit is based on my personal knowledge and is true and correct to the best of my knowledge and belief.

Maund Ment kilos

Subscribed and swom to before me this 232 day of March, 1998.

NOTARY PUBLIC

My commission expires:

MA



SMERRI L. ROMBERALIM, ATTORNEY AT LIMI HERRY RIMIN, SINE OF CHA Thy completes to an experience data. Section 14748 & C.

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